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Respectfully submitted,



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PTO/SB/08a (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 21

Application Number	10/762,764
Filing Date	JANUARY 22, 2004
First Named Inventor	MING XI, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/4714.C1/CPI/WCVD/PB3DEN
Submission Date	6/9, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear.
		Number-Kind Code ² (if known)			
	A1	US-20030049942 A1	03/13/2003	Haukka, et al.	
	A2	US-20030072975 A1	04/17/2003	Shero, et al.	
	A3	US-20030032281 A1	02/13/2003	Werkhoven, et al.	
	A4	US-20030031807 A1	02/13/2003	Elers, et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
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	B2	EP 0 442 490 A1	02/14/1991			
	B3	EP 0 429 270 A2 (Eng. Abs. Only)	05/29/1991			X
	B4	EP 0 344 352 A1 (Eng. Abs. Only)	06/03/1988			X
	B5	EP 0 799 641 A2 (Eng. Abs. Only)	10/08/1997			X

Examiner

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Sheet

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of

21

Application Number

10/762,764

Filing Date

JANUARY 22, 2004

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Group Art Unit

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	A19	US-20020090829 A1	07/11/2002	Sandhu, et al.	
	A20	US-20020076507 A1	06/20/2002	Chiang, et al.	
	A21	US-20020076837 A1	06/20/2002	Hujanen, et al.	
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Sheet 3

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10/762,764

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JANUARY 22, 2004

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MING XI, ET AL.

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	B11	JP 64-090524 (Eng. Abstract Only)	04/07/1989			X
	B12	JP 64-082676 (Eng. Abstract Only)	03/28/1989			X
	B13	JP 64-082671 (Eng. Abstract Only)	03/28/1989			X
	B14	JP 64-082617 (Eng. Abstract Only)	03/28/1989			X
	B15	JP 64-082615 (Eng. Abstract Only)	03/28/1989			X

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4

of 21

Application Number

10/762,764

Filing Date

JANUARY 22, 2004

First Named Inventor

MING XI, ET AL.

Group Art Unit

UNKNOWN

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		Number-Kind Code ² (if known)			
	A55	US-6,391,785 B1	05/21/2002	Satta, et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B16	JP 64-037832 (Eng. Abstract Only)	02/08/1989			X
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	B20	JP 63-266814 (Eng. Abstract Only)	11/02/1988			X

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	A73	US-6,271,148 B1	08/07/2001	Kao et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B26	JP 63-085098 (Eng. Abstract Only)	04/15/1988			X
	B27	JP 63-062313 (Eng. Abstract Only)	03/18/1988			X
	B28	JP 62-232919 (Eng. Abstract Only)	10/13/1987			X
	B29	JP 62-171999 (Eng. Abstract Only)	07/28/1987			X
	B30	JP 62-167297 (Eng. Abstract Only)	07/23/1987			X

Examiner

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 7

of 21

Application Number

10/762,764

Filing Date

JANUARY 22, 2004

First Named Inventor

MING XI, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/4714.C1/CPI/WCVD/PJS

Submission Date

6/9, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A109	US-5,928,389	07/27/1999	Jevtic	
	A110	US-5,925,574	07/20/1999	Aoki et al.	
	A111	US-5,923,985	07/13/1999	Aoki et al.	
	A112	US-5,923,056	07/13/1999	Lee et al.	
	A113	US-5,916,365	06/29/1999	Sherman	
	A114	US-5,904,565	05/18/1999	Nguyen, et al.	
	A115	US-5,882,413	03/16/1999	Beaulieu et al.	
	A116	US-5,882,165	03/16/1999	Maydan et al.	
	A117	US-5,879,459	03/09/1999	Gadgil et al.	
	A118	US-5,866,795	02/02/1999	Wang et al.	
	A119	US-5,866,213	02/02/1999	Foster et al.	
	A120	US-5,858,102	01/12/1999	Tsai	
	A121	US-5,856,219	01/05/1999	Naito et al.	
	A122	US-5,855,680	01/05/1999	Soininen et al.	
	A123	US-5,855,675	01/05/1999	Doering et al.	
	A124	US-5,851,849	12/22/1998	Comizzoli et al.	
	A125	US-5,835,677	11/10/1998	Li et al.	
	A126	US-5,830,270	11/03/1998	McKee et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B31	JP 62-141717 (Eng. Abstract Only)	06/25/1987			X
	B32	JP 62-091495 (w/Eng. Abstract)	04/25/1987			X
	B33	JP 62-069508 (Eng. Abstract Only)	03/30/1987			X
	B34	JP 61-210623 (Eng. Abstract Only)	09/18/1986			X
	B35	JP 61-035847 (Eng. Abstract Only)	02/20/1986			X

Examiner

Date Considered

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/762,764
				Filing Date	JANUARY 22, 2004
				First Named Inventor	MING XI, ET AL.
				Group Art Unit	UNKNOWN
				Examiner Name	UNKNOWN
				Attorney Docket Number	AMAT/4714.C1/CPI/WCVD/PJS
Sheet	8	of	21	Submission Date	6/9, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A127	US-5,807,792	09/15/1998	Ilg et al.	
	A128	US-5,801,634	09/01/1998	Young et al.	
	A129	US-5,796,116	08/18/1998	Nakata et al.	
	A130	US-5,788,799	08/04/1998	Steger, et al.	
	A131	US-5,788,447	08/04/1998	Yonemitsu et al.	
	A132	US-5,749,974	05/12/1998	Habuka et al.	
	A133	US-5,747,113	05/05/1998	Tsai	
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	A135	US-5,730,801	03/24/1998	Tepman et al.	
	A136	US-5,711,811	01/27/1998	Suntola et al.	
	A137	US-5,707,880	01/13/1998	Aftergut et al.	
	A138	US-5,705,224	01/06/1998	Murota et al.	
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	A142	US-5,644,128	07/01/1997	Wollnik et al.	
	A143	US-5,641,984	06/24/1997	Aftergut et al.	
	A144	US-5,637,530	06/10/1997	Gaines et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B36	JP 60-065712 (w/Eng. Abstract)	04/15/1985			X
	B37	JP 58-100419 (Eng. Abstract Only)	06/15/1983			X
	B38	JP 58-098917 (Eng. Abstract Only)	06/13/1983			X
	B39	JP 2002-60944 (w/Eng. Abstract)	02/28/2002			X
	B40	JP 2002-172767	06/18/2002			

Examiner

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 9

of 21

Application Number

10/762,764

Filing Date

JANUARY 22, 2004

First Named Inventor

MING XI, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/4714.C1/CPI/WCVD/PJS

Submission Date

6/9, 2004

U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
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	A147	US-5,601,651	02/11/1997	Watabe	
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	A149	US-5,532,511	07/02/1996	Nishizawa et al.	
	A150	US-5,527,733	06/18/1996	Nishizawa et al.	
	A151	US-5,521,126	05/28/1996	Okamura et al.	
	A152	US-5,503,875	04/02/1996	Imai et al.	
	A153	US-5,484,664	01/16/1996	Kitahara et al.	
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	A155	US-5,480,818	01/02/1996	Matsumoto et al.	
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	A159	US-5,443,647	08/22/1995	Aucoin et al.	
	A160	US-5,443,033	08/22/1995	Nishizawa et al.	
	A161	US-5,441,703	08/15/1995	Jurgensen	
	A162	US-5,439,876	08/08/1995	Graf et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B41	JP 2002-167672	06/11/2002			
	B42	JP 2001-284042 (w/Eng. Abstract)	10/12/2001			X
	B43	JP 2001-254181 (w/Eng. Abstract)	09/18/2001			X
	B44	JP 2001-240972 (w/Eng. Abstract)	09/04/2001			X
	B45	JP 2001-220294 (Eng. Abstract Only)	08/14/2001			X

Examiner

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 10

of 21

Application Number

10/762,764

Filing Date

JANUARY 22, 2004

First Named Inventor

MING XI, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

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		Number-Kind Code ² (if known)			
	A163	US-5,438,952	08/08/1995	Otsuka	
	A164	US-5,395,791	03/07/1995	Cheng et al.	
	A165	US-5,374,570	12/20/1994	Nasu et al.	
	A166	US-5,348,911	09/20/1994	Jurgensen et al.	
	A167	US-5,338,389	08/16/1994	Nishizawa et al.	
	A168	US-5,336,324	08/09/1994	Stall et al.	
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	A170	US-5,316,793	05/31/1994	Wallace et al.	
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	A175	US-5,286,296	02/15/1994	Sato et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B46	JP 2001-220287 (Eng. Abstract Only)	08/14/2001			X
	B47	JP 2001-217206 (Eng. Abstract Only)	08/10/2001			X
	B48	JP 2001-189312 (Eng. Abstract Only)	07/10/2001			X
	B49	JP 2001-172767 (Eng. Abstract Only)	06/26/2001			X
	B50	JP 2001-152339 (Eng. Abstract Only)	06/05/2001			X

Examiner

Date Considered

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/762,764
				Filing Date	JANUARY 22, 2004
				First Named Inventor	MING XI, ET AL.
				Group Art Unit	UNKNOWN
				Examiner Name	UNKNOWN
				Attorney Docket Number	AMAT/4714.C1/CPI/WCVD/PJS
Sheet	11	of	21	Submission Date	6/9, 2004

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		Number-Kind Code ² (if known)			
	A181	US-5,270,247	12/14/1993	Sakuma, et al.	
	A182	US-5,259,881	11/09/1993	Edwards, et al.	
	A183	US-5,256,244	10/26/1993	Ackerman	
	A184	US-5,254,207	10/19/1993	Nishizawa et al.	
	A185	US-5,250,148	10/05/1993	Nishizawa, et al.	
	A186	US-5,246,536	09/21/1993	Nishizawa et al.	
	A187	US-5,234,561	08/10/1993	Randhawa et al.	
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	A190	US-5,186,718	02/16/1993	Tepman et al.	
	A191	US-5,166,092	11/24/1992	Mochizuki, et al.	
	A192	US-5,130,269	07/14/1992	Kitahara, et al.	
	A193	US-5,091,320	02/25/1992	Aspnes et al.	
	A194	US-5,085,885	02/04/1992	Foley et al.	
	A195	US-5,013,683	05/07/1991	Petroff et al.	
	A196	US-5,000,113	03/19/1991	Wang et al.	
	A197	US-4,993,357	02/19/1991	Scholz	
	A198	US-4,975,252	12/04/1990	Nishizawa et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B51	JP 2001-111000	04/20/2001			
	B52	JP 2001-020075 (Eng. Abstract Only)	01/23/2001			X
	B53	JP 2000-353666 (Eng. Abstract Only)	12/19/2000			X
	B54	JP 2000-340883 (Eng. Abstract Only)	12/08/2000			X
	B55	JP 2000-319772 (Eng. Abstract Only)	11/21/2000			X

Examiner

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 12

of 21

Application Number

10/762,764

Filing Date

JANUARY 22, 2004

First Named Inventor

MING XI, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

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		Number-Kind Code ² (if known)			
	A199	US-4,960,720	10/02/1990	Shimbo	
	A200	US-4,951,601	08/28/1990	Maydan, et al.	
	A201	US-4,931,132	06/05/1990	Aspnes et al.	
	A202	US-4,927,670	05/22/1990	Erbil	
	A203	US-4,917,556	04/17/1990	Stark et al.	
	A204	US-4,876,218	10/24/1989	Pessa et al.	
	A205	US-4,861,417	08/29/1989	Mochizuki et al.	
	A206	US-4,859,627	08/22/1989	Sunakawa	
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	A213	US-4,829,022	05/09/1989	Kobayashi et al.	
	A214	US-4,813,846	03/21/1989	Helms	
	A215	US-4,806,321	02/21/1989	Nishizawa et al.	
	A216	US-4,767,494	08/30/1988	Kobayashi et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B56	JP 2000-218445 (Eng. Abstract Only)	08/08/2000			X
	B57	JP 2000-138094 (Eng. Abstract Only)	05/16/2000			X
	B58	JP 2000-087029 (Eng. Abstract Only)	03/28/2000			X
	B59	JP 2000-068072 (Eng. Abstract Only)	03/03/2000			X
	B60	JP 2000-058777 (Eng. Abstract Only)	02/25/2000			X

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 13

of 21

Application Number

10/762,764

Filing Date

JANUARY 22, 2004

First Named Inventor

MING XI, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/4714.C1/CPI/WCVD/PJS

Submission Date

6/9, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
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	A218	US-4,413,022	11/01/1983	Suntola et al.	
	A219	US-4,389,973	06/28/1983	Suntola et al.	
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	A222	US-6,124,158	09/26/2000	Dautartas, et al.	
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	A234				
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	A226				
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	A230				
	A231				
	A232				
	A233				
	A234				

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B56	JP 04-151822 (Eng. Abstract Only)	05/25/1992			X
	B57	JP 2001-303251 (Eng. Abstract)	10/31/2001			X
	B58	JP 2001-328900 (Eng. Abstract)	11/27/2001			X
	B59	JP 2000-031387 (Eng. Abstract Only)	01/28/2000			X
	B60	JP 11-269652 (Eng. Abstract Only)	10/05/1999			X

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 14

of 21

Application Number	10/762,764
Filing Date	JANUARY 22, 2004
First Named Inventor	MING XI, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/4714.C1/CPI/WCVD/PJS
Submission Date	6/9, 2004

FOREIGN PATENT DOCUMENTS

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
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	B64	JP 09-293681 (Eng. Abstract Only)	11/11/1997			X
	B65	JP 09-260786 (Eng. Abstract Only)	10/03/1997			
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	B67	JP 08-245291 (Eng. Abstract Only)	09/24/1996			X
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	B78	JP 06-177381 (Eng. Abstract Only)	06/24/1994			X
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	B80	JP 06-045606 (Eng. Abstract Only)	02/18/1994			X
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 15

of 21

Application Number

10/762,764

Filing Date

JANUARY 22, 2004

First Named Inventor

MING XI, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/4714.C1/CPI/WCVD/PJS

Submission Date

6/9, 2004

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	B88	JP 05-235047 (Eng. Abstract Only)	09/10/1993			X
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	B97	JP 05-074724 (Eng. Abstract Only)	03/26/1993			X
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	B110	JP 04-186824 (Eng. Abstract Only)	07/03/1992			X
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	B112	JP 04-162418 (Eng. Abstract Only)	06/05/1992			X
	B113	JP 04-132681 (Eng. Abstract Only)	05/06/1992			X

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 16

of 21

Application Number

10/762,764

Filing Date

JANUARY 22, 2004

First Named Inventor

MING XI, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/4714.C1/CPI/WCVD/PJS

Submission Date

6/9, 2004

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		Country Code ² -Number ³ -Kind Code ⁴ (if known)				
	B114	JP 04-132214 (Eng. Abstract Only)	05/06/1992			X
	B115	JP 04-111418 (Eng. Abstract Only)	04/13/1992			X
	B116	JP 04-100292 (Eng. Abstract Only)	04/02/1992			X
	B117	JP 04-031396 (w/Eng. Abstract)	02/03/1992			X
	B118	JP 04-031391 (Eng. Abstract Only)	02/03/1992			X
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	B120	JP 03-286522 (Eng. Abstract Only)	12/17/1991			X
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	B122	JP 03-208885 (Eng. Abstract Only)	09/12/1991			X
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	B137	JP 02-196092 (Eng. Abstract Only)	08/02/1990			X
	B138	JP 02-172895 (Eng. Abstract Only)	07/04/1990			X
	B139	JP 02-162717 (Eng. Abstract Only)	06/22/1990			X
	B140	JP 02-129913 (Eng. Abstract Only)	05/18/1990			X
	B141	JP 02-106822 (Eng. Abstract Only)	04/18/1990			X

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 17

of 21

Application Number

10/762,764

Filing Date

JANUARY 22, 2004

First Named Inventor

MING XI, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/4714.C1/CPI/WCVD/PJS

Submission Date

6/9, 2004

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		Country Code ² -Number ³ -Kind Code ⁵ (if known)				
	B142	JP 02-074587 (Eng. Abstract Only)	03/14/1990			X
	B143	JP 02-074029 (Eng. Abstract Only)	03/14/1990			X
	B144	JP 02-063115 (Eng. Abstract Only)	03/02/1990			X
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	B154	JP 01-272108 (Eng. Abstract Only)	10/31/1989			X
	B155	JP 01-270593 (Eng. Abstract Only)	10/27/1989			X
	B156	JP 01-264218 (Eng. Abstract Only)	10/20/1989			X
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	B159	JP 01-154511 (Eng. Abstract Only)	06/16/1989			X
	B160	JP 01-143233 (Eng. Abstract Only)	06/05/1989			X
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	B162	JP 01-117017 (Eng. Abstract Only)	05/09/1989			X
	B163	JP 01-103996 (Eng. Abstract Only)	04/21/1989			X
	B164	JP 01-103982 (Eng. Abstract Only)	04/21/1989			X
	B165	JP 03-048421	03/01/1991			
	B166	JP 2001-62244	03/13/2001			
	B167	WO 99/13504	03/18/1999			X
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Examiner

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/762,764
				Filing Date	JANUARY 22, 2004
				First Named Inventor	MING XI, ET AL.
				Group Art Unit	UNKNOWN
				Examiner Name	UNKNOWN
				Attorney Docket Number	AMAT/4714.C1/CPI/WCVD/PJS
Sheet	18	of	21	Submission Date	6/9, 2004

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	B171	WO 96/18756	06/20/1996			
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	B173	WO 93/02111	02/04/1993			
	B174	WO 91/10510 (Eng. Abstract Only)	07/25/1991			X
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	B185	WO 00/11721 (Eng. Abstract Only)	03/02/2000			X
	B186	WO 00/79576 A1 (Eng. Abs. Only)	12/28/2000			X
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	B188	WO 00/63957 A1 (Eng. Abs. Only)	10/26/2000			X
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	B192	WO 00/15865 A1	03/23/2000			
	B193	WO 02/45167 A2	06/06/2002			
	B194	WO 02/67319 A2	08/29/2002			
	B195	WO 99/01595 A1	01/14/1999			

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Substitute for form 1449B/PTO		Application Number	10/762,764
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Filing Date	JANUARY 22, 2004
		First Named Inventor	MING XI, ET AL.
		Group Art Unit	UNKNOWN
		Examiner Name	UNKNOWN
		Attorney Docket Number	AMAT/4714.C1/CPI/WCVD/PJS
Sheet 19	of 21	Submission Date	6/9, 2004

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	C1	OHBA, ET AL., "Thermal Decomposition of Methylhydrazine and Deposition Properties of CVD TiN Thin Films", Conference Proceedings, Advanced Metallization for ULSI Applications in 1993 (1994), pp. 143-149.	
	C2	SCHEPER, ET AL., "Low-temperature deposition of titanium nitride films from dialkylhydrazine-based precursors", Materials Science in Semiconductor Processing 2 (1999), pp. 149-157.	
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	C8	SOLANKI, ET AL., "Atomic Layer deposition of Copper Seed Layers", Electrochemical and Solid State Letters, 3(10) (2000), pp. 479-480.	
	C9	YAMAGA, ET AL., "Atomic Layer Epitaxy Of ZnS By A New Gas Supplying System In A Low-Pressure Metalorganic Vapor Phase Epitaxy", J. of Crystal Growth 117 (1992), pp. 152-155.	
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	C11	BADER, ET AL., "Integrated Processing Equipment", Solid State Technology, Cowan Pub., Vol. 33, No. 5 (May 1, 1990), pp. 149-154.	
	C12	CHOI, ET AL., "The effect of annealing on resistivity of low pressure chemical vapor deposited titanium diboride", J. Appl. Phys. 69(11) (June 1, 1991), pp. 7853-7861	

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	C13	CHOI, ET AL., "Stability of TiB ₂ as a Diffusion Barrier on Silicon", J. Electrochem. Soc. 138(10) (October 1991), pp. 3062-3067.	
	C14	DAN MAYDAN, "Cluster Tools for Fabrication of Advanced Devices" Jap. J. of Applied Physics, Extended Abstracts, 22 nd Conference Solid State Devices and Materials (1990), pp. 849 - 852.	
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	C16	KITIGAWA, ET AL., "Hydrogen-mediated low temperature epitaxy of Si in plasma-enhanced chemical vapor deposition", Applied Surface Science (2000), pp. 30-34	
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	C19	L. NIINISTO, ET AL., "Synthesis of oxide thin films and overlayers by atomic layer epitaxy for advanced applications", Materials Science and Engineering B41, 1996, pgs 23-29.	
	C20	LEE, ET AL., "Pulsed nucleation for ultra-high aspect ratio tungsten plugfill", Novellus Systems, Inc. (2001), pp. 1-2.	
	C21	HULTMAN, ET AL., "Review of the thermal and mechanical stability of TiN-based thin films", Zeitschrift Fur Metallkunde, 90(10) (Oct. 1999), pp. 803-813.	
	C22	KLAUS, ET AL., "Atomic Layer Deposition of SiO ₂ Using Catalyzed and Uncatalyzed Self-Limiting Surface Reactions", Surface Review & Letters, 6(3&4) (1999), pp. 435-448.	
	C23	YAMAGUCHI, ET AL., "Atomic-layer chemical-vapor-deposition of silicon dioxide films with extremely low hydrogen content", Appl. Surf. Sci., Vol. 130-132 (1998), pp. 202-207.	
	C24	GEORGE, ET AL., "Surface Chemistry for Atomic Layer Growth", J. Phys. Chem., Vol. 100 (1996), pp. 13121-131.	

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	C25	GEORGE, ET AL., "Atomic layer controlled deposition of SiO ₂ and Al ₂ O ₃ using ABAB...binary reaction sequence chemistry", <i>Appl. Surf. Sci.</i> , Vol. 82/83 (1994), pp. 460	
	C26	WISE, ET AL., "Diethyldiethoxysilane as a new precursor for SiO ₂ growth on silicon", <i>Mat. Res. Soc. Symp. Proc.</i> , Vol. 334 (1994), pp. 37	
	C27	MIN, ET AL., "Atomic layer deposition of TiN thin films by sequential introduction of Ti precursor and NH/sub3", <i>Symp.: Advanced Interconnects and Contact Materials and Processes for Future Integrated Circuits</i> (April 13-16, 1998) pp. 337-342.	
	C28	RITALA, ET AL. "Atomic Layer Epitaxy Growth of TiN Thin Films", <i>J. Electrochem. Soc.</i> , 142(8) (Aug. 1995), pp. 2731-737.	
	C29	ELERS, ET AL., "NbC15 As A Precursor In Atomic Layer Epitaxy", <i>Appl. Surf. Sci.</i> , Vol. 82/83 (1994), pp. 468-474.	
	C30	LEE, "The Preparation of Titanium-Based Thin Film by CVD Using Titanium Chlorides as precursors", <i>Chemical Vapor Deposition</i> , 5(2) (Mar. 1999), pp. 69-73.	
	C31	MARTENSSON, ET AL., "Atomic Layer Epitaxy of Copper, Growth & Selectivity in the Cu (II)-2,2,6,6-Tetramethyl-3, 5-Heptanedion ATE/H2 Process", <i>J. Electrochem. Soc.</i> , 145(8) (Aug. 1998), pp. 2926-2931.	
	C32	MIN, ET AL., "Chemical Vapor Deposition of Ti-Si-N Films with Alternating Source Supply", <i>Mat., Res. Soc. Symp. Proc.</i> , Vol. 564 (Apr. 5, 1999), pp. 207-210.	
	C33	BEDAIR, "Atomic Layer Epitaxy Deposition Processes", <i>J. Vac. Sci. Techol.</i> 12(1) (Jan/Feb 1994).	
	C34	ELAM, ET AL. "Nucleation and Growth During Tungsten Atomic Layer Deposition on SiO ₂ Surfaces," <i>Thin Solid Films</i> 386 (2001) Pages 41-52, (Accepted Dec. 14, 2000).	
	C35	KLAUS, ET AL. "Atomically Controlled Growth of Tungsten and Tungsten Nitride Using Sequential Surface Reactions", <i>Applied Surface Science</i> , pp. 479-491 (2000).	
	C36	MIN, ET AL. "Metal-Organic Atomic-Layer Deposition of Titanium-NitrideFilms", <i>Applied Physics Letters</i> , American Inst. Of Physics, Vol. 75(11) (Sept. 13, 1999).	

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